

34.9



**BEHIND THE EAGLE  
STAND THE FORESTS**



• **T**IMBER IS A CROP which, when properly protected, GROWS. Like other crops, timber must be harvested at maturity before decadence.

With protection from fire, insects, and disease the 461,000,000 acres of America's commercial forest land will grow enough timber to meet all future domestic needs for forest products and will continue to provide a substantial supply available for export.

Forest land owners, large and small, in increasing numbers are keeping their forest lands productive. Many timber companies have long been operating on a sustained-yield basis. Each year increasing numbers are conducting their logging with view to continuous forest production.

American "Tree Farms" will provide an ample supply of forest products for both peace-time and national emergency requirements.

*jobs done!*

by the FOREST INDUSTRIES

**for the ARMY**

Barracks, laundries, portable bridges, hospitals, recreation centers, warehouses, laboratories, tent houses, chapels, operations offices, mess halls, hangars, airplanes, 'plane construction jigs, 'plane shipping crates, tank models, rifle stocks, packing boxes, ammunition boxes, and uncountable other items.

**for the NAVY**

Barracks, mess halls, recreation halls, class rooms, roof trusses, armories, flooring, office furniture, drafting boards, keel timbers, keel wedges, rams, trawlers, mine layers, mine sweepers, patrol boats, mosquito boats, Coast Guard cutters, life-saving boats, battleship decks, scaffolding, shipways, spar timbers.

**for DEFENSE HOUSING**

Prefabricated houses, comfortable homes for workers in defense industries, shelter for families evicted from land needed for military maneuvers, one-story, one-family houses; two-story, multiple family houses; housing for Navy Yard workers.

**for DEFENSE INDUSTRIES**

Drydocks, factories, mold lofts, assembly shops, shipyards, scaffolding, pile drivers, cargo vessels, warehouses, canneries, airplane factories, freight cars, ordnance plants.

**for ALL INDUSTRY**

Engineering services, churches, theatres, orchestra shells, piers, auditoriums, garages, steel racks, warehouses, oil derricks, tank towers, forest fire lookout towers, coal towers, cooling towers, barns, hangars, riding academies, roof trusses, skating rinks, railroad bridges, foot bridges, powder magazines, trestles, arches, concrete forms, factories.

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*Washington, D. C.*





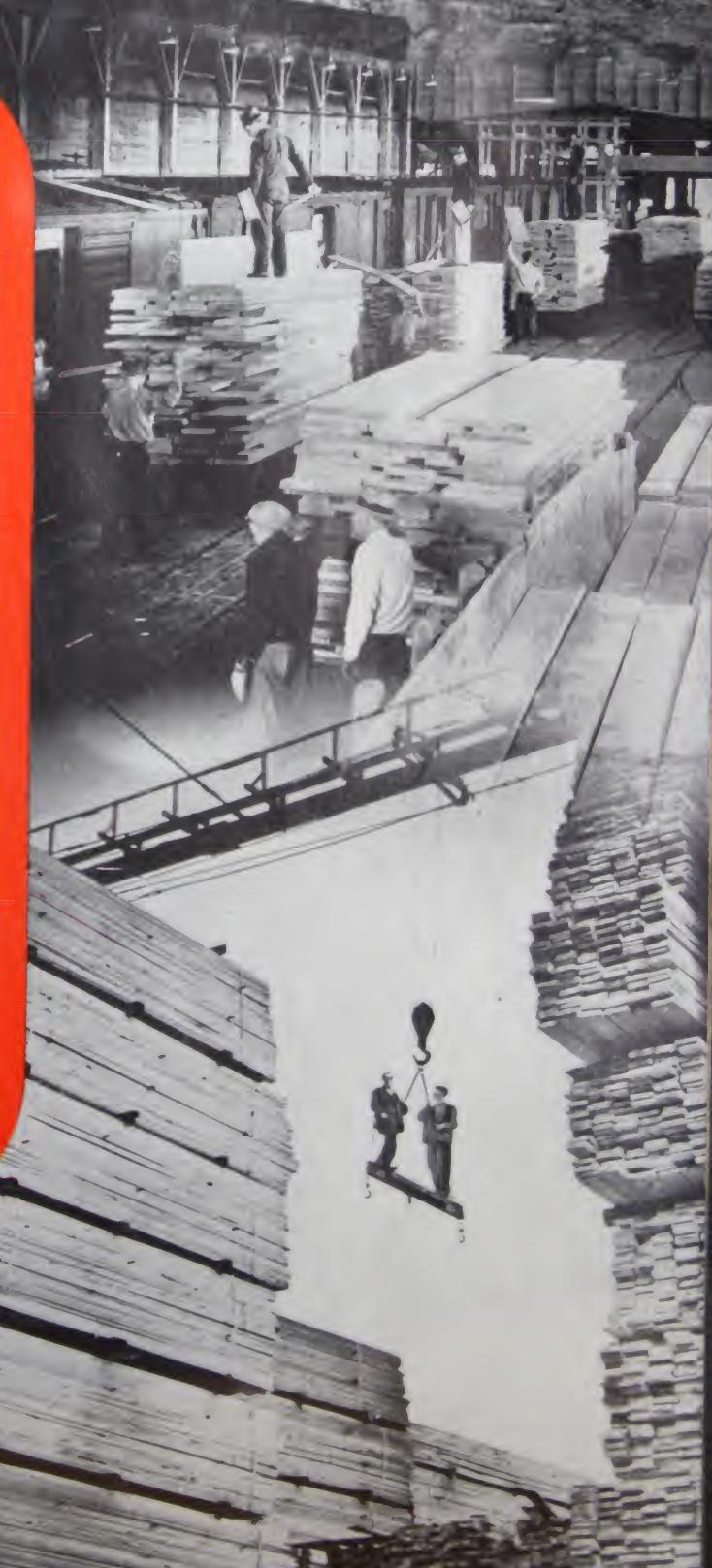
**S**INCE the first immigrant landed, axe in hand, and built himself a timber stockade against arrow and tomahawk, America's mighty forests have been bulwarks of defense. Nor have they failed to answer the bugle today! Behind the American Eagle stand the forests . . . rank upon rank, staunch, proven, and deep.

America's forests have been from the beginning America's original and still most abundant natural resource. In peace, they build our homes, our schools, our churches, and our factories. In war, they build barracks, ships, munition plants, and perform an infinite variety of services, dramatic and unsung.

When America awoke to this emergency, lumber was ready, willing, and able to play a major role . . . immediately! No "retooling" . . . no "plant expansion" . . . no "bottlenecks"! Lumber housed the troops . . . "The Greatest Carpentry Job in History" . . . in jig time. Lumber is building shipyards and ships, aircraft factories and 'planes, ordnance plants and shell boxes, and . . . through the development of improved engineering methods . . . is performing many tasks formerly thought possible only by materials urgently needed for actual fighting tools. Thus, intelligent application of lumber as an engineering material has released and is releasing many million tons of "bottleneck" materials to the fighting forces.

Since the birth of the nation, American forests have yielded, in war and peace, some 2,200,000,000,000 board feet of lumber. Standing today are growing forests with almost as much. Under planned management these forests assure even greater supplies for the future.

More than a million men are trained to work in wood, a labor reservoir exceeding all other crafts. Lumber is the most easily worked, most economical, most readily obtainable structural material.



# for the ARMY

**F**ROM great, timber-trussed warehouses to the stock of the buck private's rifle, the Army uses wood in almost every phase of its multitude of activities. Uncle Sam's greatest peace-time army lives, dry and comfortable, in wood barracks, mess halls, and hospitals which went up in phenomenal time as the "greatest carpentry job in history". Wood goes into the construction of Army planes, and they are sheltered in wood hangars. Ammunition is moved in wood boxes. Before a tank is built, a full-scale model is made of wood. Our Army must have wood.



Photo by U. S. Army Signal Cor



"Biggest carpentry job in history"—Wood barracks in various stages of construction at Selfridge Field, Michigan.



**Cantonment** at Fort George Meade, Maryland—a small corner of a large Army camp, of which there are some 56 in all. They went up fast, because the lumber to build 'em was delivered without delay.

**Two-story barracks** under construction at Lowry Field, Denver, Col. "The Boys" are snugly housed in wood.



**Laundry** at Fort Lewis, Washington, framed in timber construction, one of the many jobs wood is doing for the Army.



**Army Air Corps** building project gets underway at Sunset Field, Spokane, Washington. Well-constructed, comfortable wood structures to house America's "Cavalry of the Skies" went up quickly, at minimum expense.



**Army Engineers** at Fort Lewis, Washington, maneuver a prefabricated timber truss unit of a portable bridge.

Army Photo



Army Photo

**Standard barracks**, simply designed and economically constructed of lumber at Camp Ord, California, by the Office of the Quartermaster General.



**Hospital unit** under construction, by U. S. Engineers, at Portland-Columbia Airport Cantonment, Portland, Oregon, for Army pursuit plane base.



**Service club** under construction at Camp Grant, Rockford, Illinois. Even though Army camps do not specialize in the aesthetic, note the interesting architecture simply executed in wood.



**Warehouses** under construction at Camp Shelby, Hattiesburg, Mississippi. Note the stout joisting of the floors to bear heavy loads. Wood is the structural medium employed here.



Army Signal Corps Photo

**CCC Camp**, Arlington, Virginia. This is the standard CCC design of construction that has housed 300,000 men. Variations of it have been applied with great success in prefabricated houses for civilians.



**Testing laboratory** being erected for the Signal Corps at Avon, Kentucky, by Unit Structures, Inc., of Peshtigo, Wisconsin. The timber arches for this structure rise 66 feet, span 50 feet, and are spaced 16 feet.



**Camp Ord**, Monterey County, California, being built by private contractors under the direction of the Office of the Quartermaster General. Note the permanent "awnings" over the windows, a standard feature of barrack design.



**Carpenter's eye view** of a barracks under construction at Ft. George Meade, Maryland. Observe the sturdy, timber framing and the diagonal application of sheathing which gives the structure additional rigidity.



**Tent frames** at Ft. Screven, Georgia. Tents are grouped by fifties. Wood is used for the floors and half-walls.



**Chapel** at Ft. Myer, Virginia. 604 of these all-wood, regimental chapels have been erected to serve Protestant, Catholic, and Jew. The architecture is typical of the small, wood churches found in many American communities.



**TECO Timber Connectors** join the 37-foot trusses which support the roofs in most of the Army chapels. Each chapel has a seating capacity of 400 and some of the cantonments have as many as 15 or 20 chapels.



**CCC Camp** nestled in the mountains of West Virginia. Construction of lumber-built encampments like these for civilian use gave the military much valuable information which it has applied to soldier housing.



**Operations office** of an Air Corps training unit at Fort Lewis, Washington. The stenographers wear khaki and shave, but paper work at wood desks is as necessary to the Army as to any other complex organization.



**Mess hall** at Camp McQuade, California, is clean, airy and cheerful. When a company of hungry soldiers charges in here from drill, the carnage among the beef and potatoes makes the kitchen police shudder. Tables and benches as well as the building, itself, are wood.



**Snug as a bug in a rug**, "the boys" sleep in wood barracks at Ft. Sheridan, Illinois. Contrary to rumor, the sergeant does not tuck 'em in at night. The head-to-foot arrangement of the bunks is to guard against spread of respiratory diseases.

Air Corps Photo

Army Signal Corps Photo



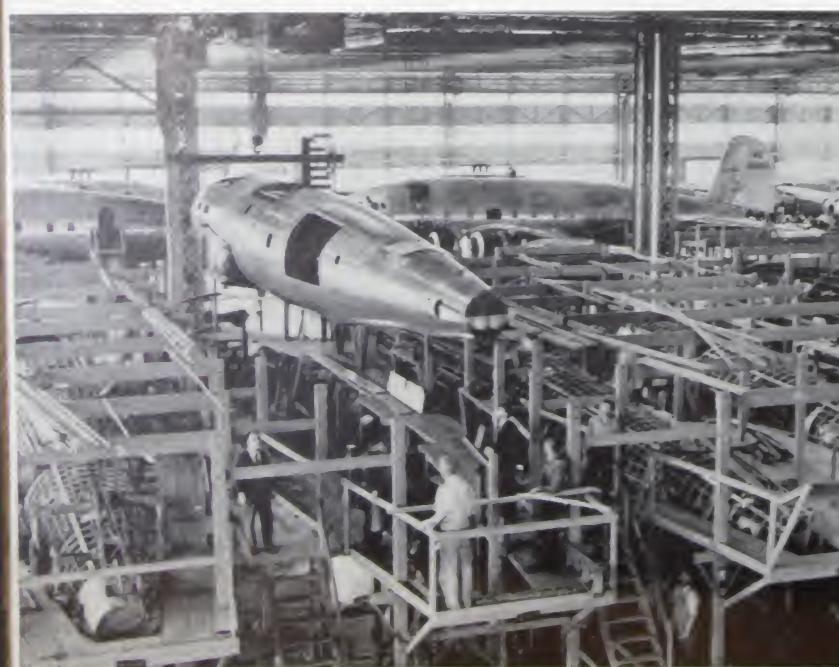
**Air training bases** at Tulare, Visalia, and King City, California; Glendale and Mesa, Arizona, and Oxnard, Ontario, have hangars of timber like this. Eleven trusses of 102-foot span each, spaced 20 feet apart, were built by Summerbell Roof Structures to support the roof over this 102 x 200-foot structure.



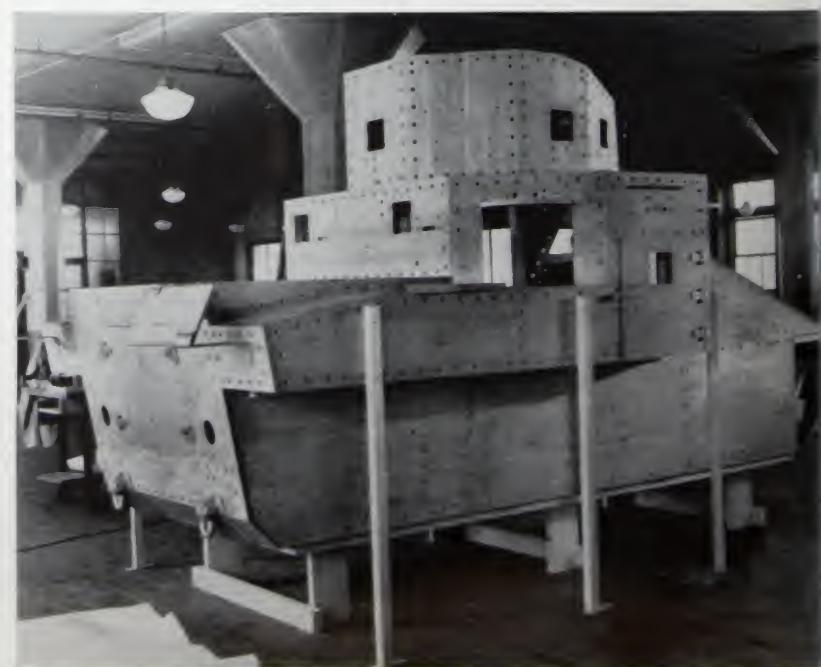
**Cadet pilots** of the Army and Navy air corps are learning to fly in ships like this Stearman PT-13B primary trainer, built by Boeing. Frames of the wings are of wood. One of these ships is being produced every three hours at present, and the company expects to double that rate soon.



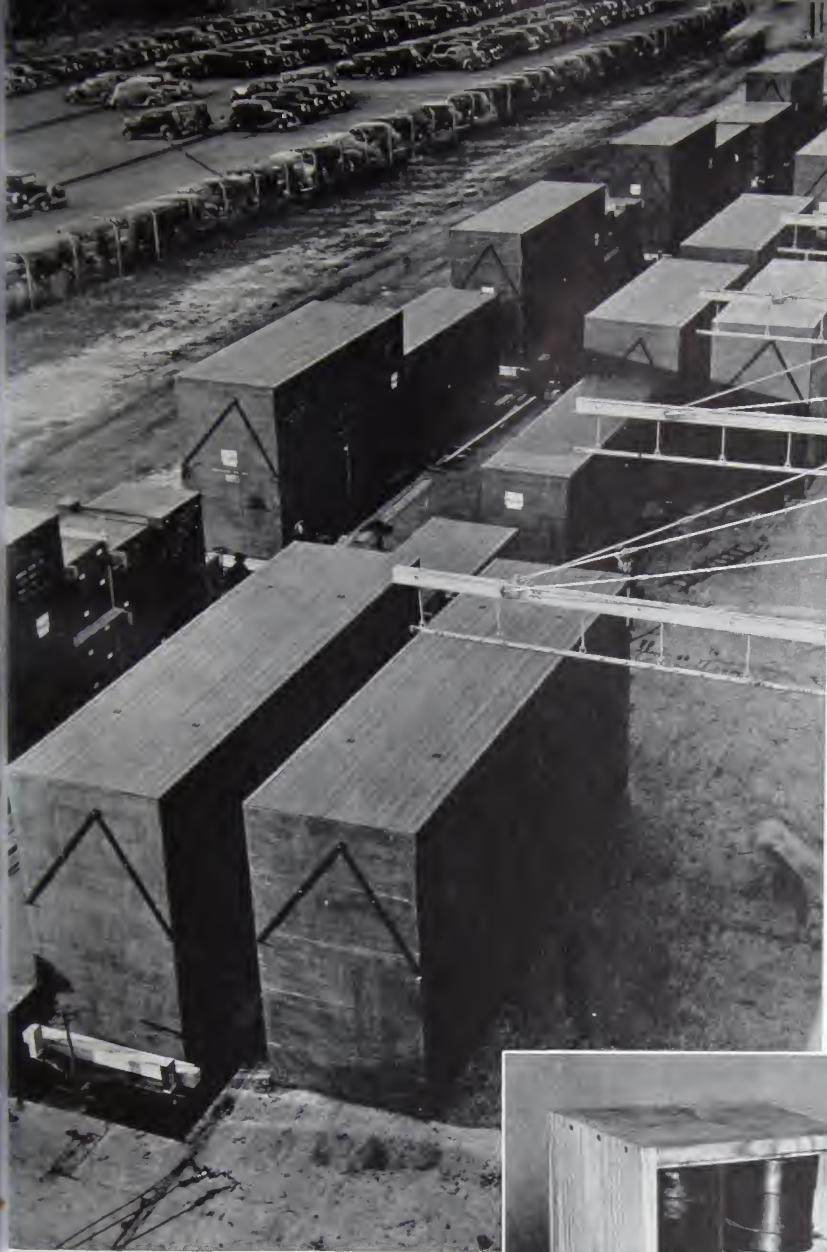
**Wellington Bomber** off to pay a call on you know whom. They say "ol Wellington Bombers never die", but always get home to be patched up, an "rise to fight again". Possibly the wood used in their construction has som thing to do with that.



**Birth of a "Flying Fortress."** Out of its "cradle", the wood construction jig, goes the fuselage of one of the Army's new Boeing B-17Bs hoisted by an overhead crane which will take it to the final assembly floor.



**Tanks a million!** This weird affair is a wood "mock-up" of a tank, constructed at the Chrysler Tank Arsenal as a model or pattern from which the real thing is built. Looks like something out of Buck Rogers!



**Aircraft crates** are almost "as big as a house". These planes, wrapped tenderly in wood, are leaving the Glenn L. Martin Company Baltimore plant for some undeclared destination. Note the doors in the end of each crate for inspection.

**Shell boxes.** These large sized eggs aren't BB shot; they demand respectful treatment. Wood cases protect them from accident and make for easy handling.



U. S. Army Signal Corps Photo

**Garand Rifle** stocks are made of choice woods, painstakingly hand finished by master craftsmen.



American Red Cross Photo

**Red Cross supplies**, surgical dressings and the like, are all packed in 13 x 16-inch, tongue and groove, nailed, wood boxes.



**Ammunition** moves in wood boxes. National Youth Administration wood working shop, Philadelphia, at present employed in building 30 caliber ammunition boxes for Frankford Arsenal.



Shell Oil Company Photo

**Lubricants and fuel oils** for the mobile units are packed in strong, wood boxes, for their journey may be long and rough. Leakage would not only be costly, but dangerous.

# for the NAVY

"*WOODEN SHIPS for iron men*" springs first to mind, naturally, when one thinks about wood's service to the Navy and, make no mistake about it, wood ships are still an important arm of the service. Along the New England coast craftsmen sons of generations of Yankee shipbuilders are turning out wood cargo vessels, trawlers, mine layers, patrol boats, as fast as ever they can. On the Lakes and along the Gulf swarms of humming mosquito boats are hatching. Even metallic monsters like the U. S. S. North Carolina, seen here firing the mightiest broadside in naval history, need wood for their decks. As evidenced in the following pages, wood serves the Navy in an endless variety of important if less romantic ways.

Official U. S. Navy Ph



**Timbers cut during Civil War**, recently dredged up at the Brooklyn Navy Yard and found in perfect condition, are being used in the process of building modern fighting ships, as keel wedges, and in wood auxiliary craft.

**500 men** can live in this huge, wood barrack at the Pensacola Florida, Naval Air Station. Mess and recreation halls and classrooms are all included in these large, single units which compare with the Army's 63-man barracks.



**Timber roof trusses**, prefabricated, are placed as a unit on this wood structure at the Opa-Locka Naval Air Base, Miami, Florida. Note the diagonal sheathing for increased rigidity.



**Naval air base**. Another view of the wood construction going up at Opa Locka, Miami, Florida. Larger structures than those of the Army, these show good architecture and skilful engineering.



**West's largest armory.** \$4,000,000 Naval Armory at Los Angeles, showing 32,000 square feet of wood floor and timber Lamella roof by Summerbell Roof Structures, Los Angeles. At left: workmen laying finished floor over treated lumber sub-floor.



Wood office furniture in the Office of Civilian Supply of the Office of Emergency Management, Washington, D. C. Defense officials follow their own precepts and use wood instead of critical list materials needed for actual fighting tools.



Drafting room of the Boeing Aircraft plant at Seattle, Washington. The drafting boards and furniture are wood.



By Ewing Galloway, N. Y.

**Keel timbers**, 110 feet long, on their way to the shipyard to become the backbones of all-wood trawlers, mine-layers or other naval auxiliary vessels.



Official U. S. Navy Photo

**Battlewagon**—Foredeck of United States cruiser, a unit in the "two-ocean navy", as the captain sees it from the bridge. Even these floating metal forts need wood for their decks.



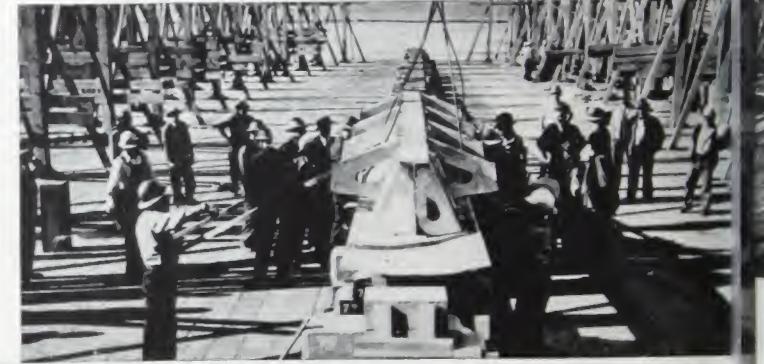
Official U. S. Navy Photo

**Minesweeper**—These tough, little craft, which chug about the touch-and-go business with few cheers, are made of wood.



U. S. Coast Guard Photo

**Coast Guard Cutter**—Fast, clean-cut, lightly armed, these wood built craft have been taken over by the Navy for patrol duty.



**Laying the keel** of the first of 25 new destroyers to be built at Seattle. The scaffolding and flooring of the shipways at the Seattle-Tacoma Shipbuilding Corporation yard are lumber.

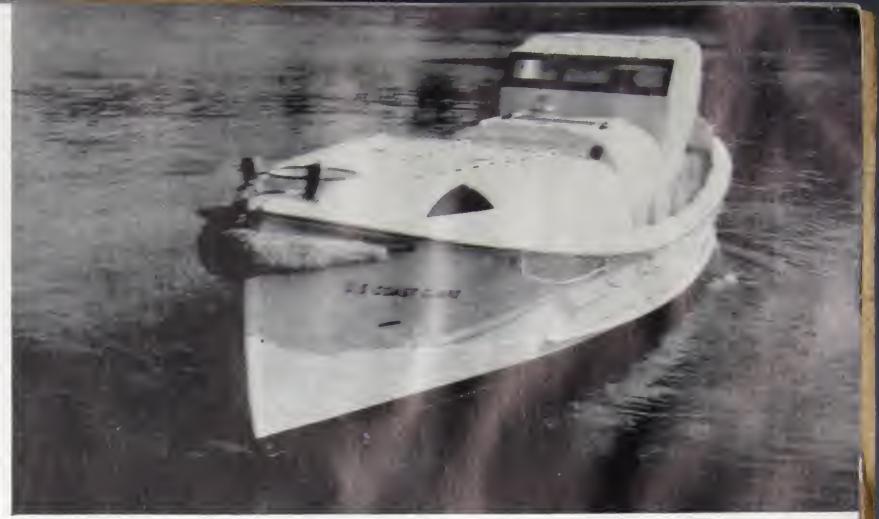


**Spar timbers** supplied to the Navy for use as derrick booms. These long, heavy, straight timbers are typical of the quality of *materiel* which the forest products industries are supplying, quickly and efficiently, to the armed forces of the nation.



U. S. Coast Guard Photo

**The U. S. Coast Guard** has for years built its own wood boats in its own shops to its own exacting specifications. Here is a life-saving boat in process of construction. Note that it is heavily bulkheaded and sturdily ribbed.



U. S. Coast Guard Photo

**Practically non-sinkable** and self-bailing, probably no boats in the world have to stand the punishment absorbed by the U. S. Coast Guard life-saving boats. This is the completion of the job you see at the left.



**Trawler**—Trim and clean as a hound's tooth, and brand new, an all-wood, naval auxiliary craft takes to the water without fanfare. Other hulls are on the stock ready to follow as fast as master shipbuilders can finish them.



**"Wooden Ships for Iron Men"**—An old-time shipbuilder "dubbing" the ribs of a wood, naval auxiliary vessel with an adz, an implement he handles with the delicacy of a surgeon.

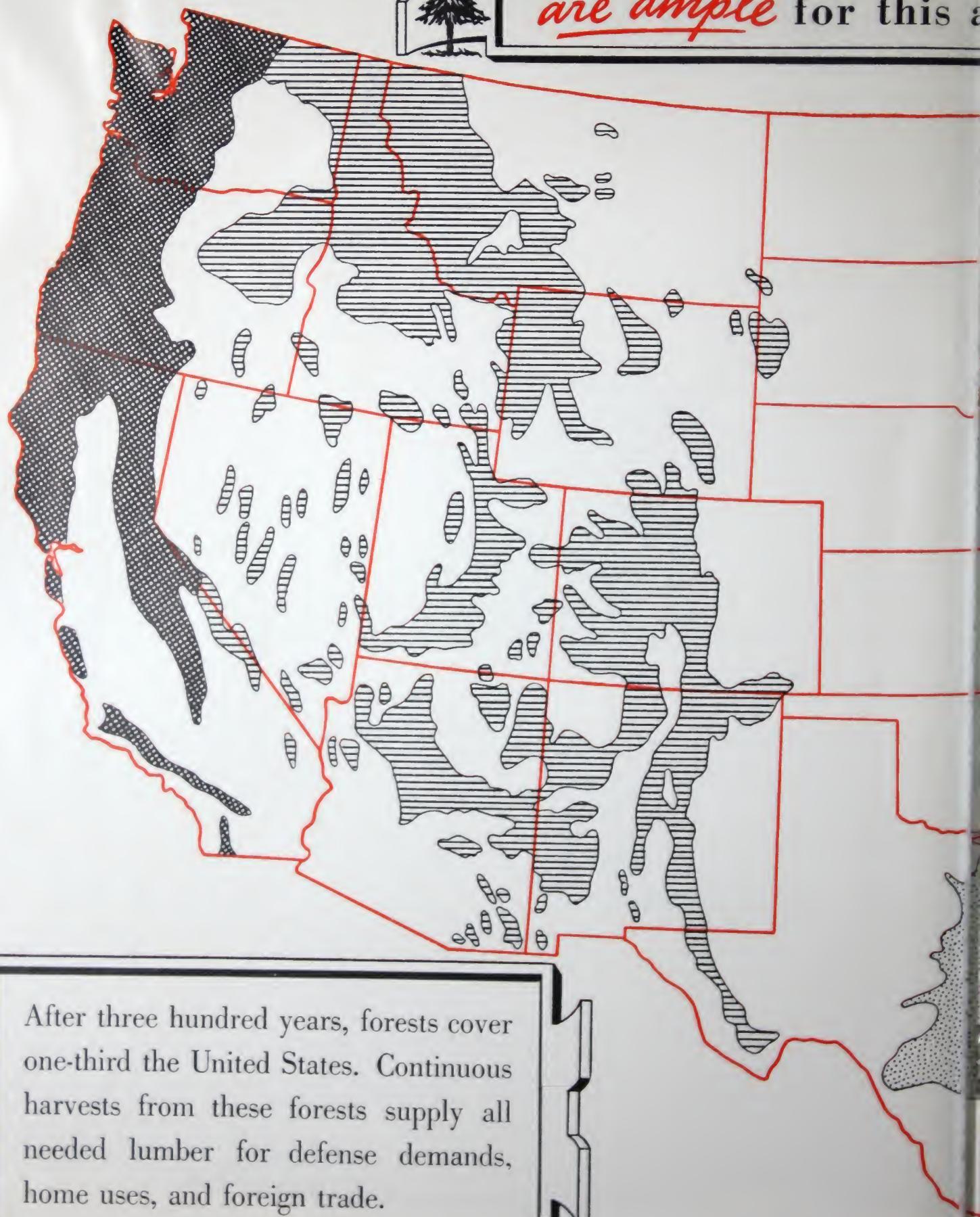


**Mosquito boat** tied up at the Washington Navy Yard. These small, high-powered boats are designed for swift "hit-and-run" operations against larger, enemy, surface craft. Wood-built, they are equipped with torpedo tubes and two machine guns.

Washington Star Photo

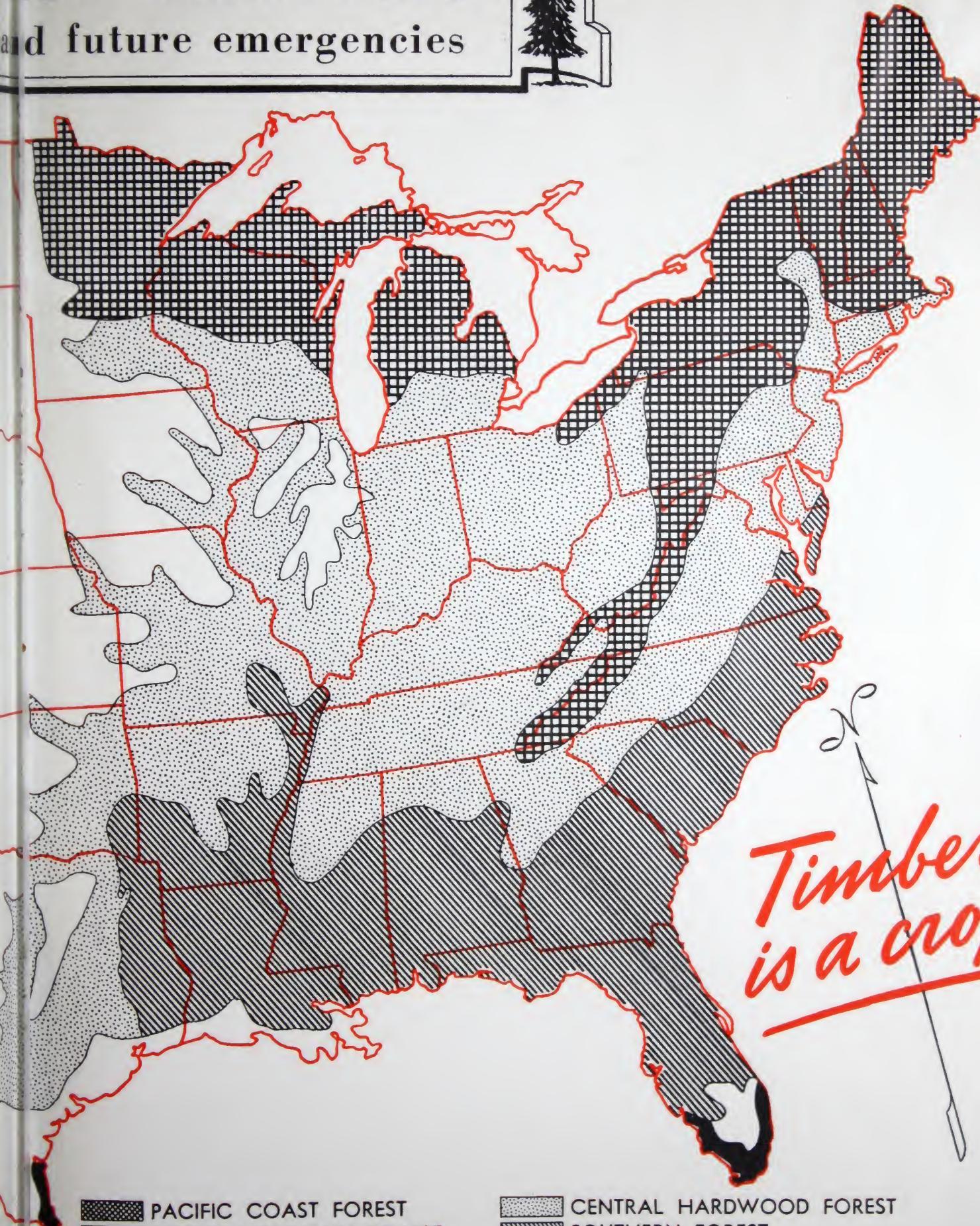


AMERICA'S FORESTS  
*are ample* for this and



After three hundred years, forests cover one-third the United States. Continuous harvests from these forests supply all needed lumber for defense demands, home uses, and foreign trade.

REST RESOURCES  
and future emergencies

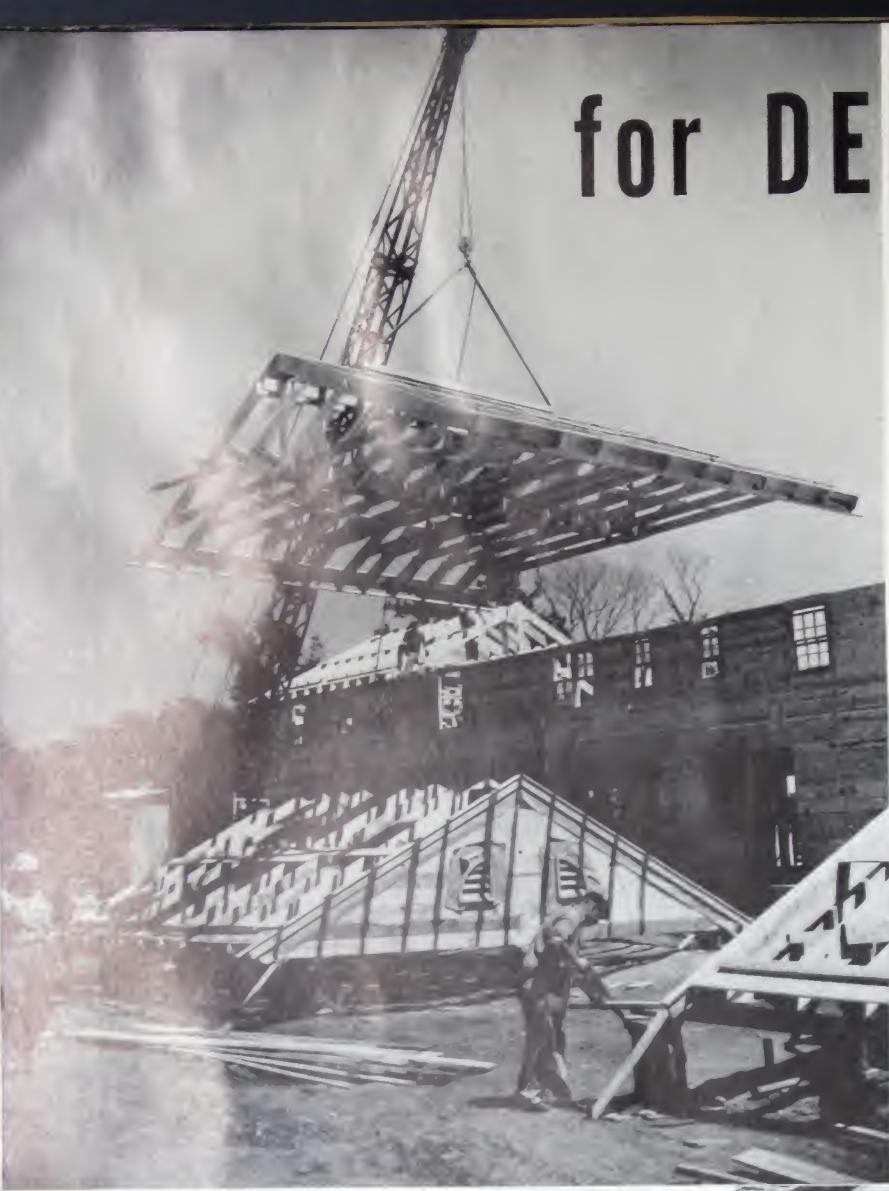


*Timber  
is a crop!*

[Black square] PACIFIC COAST FOREST  
[Light gray square] ROCKY MOUNTAIN FOREST  
[Dark gray square] NORTHERN FOREST

[Light gray square] CENTRAL HARDWOOD FOREST  
[Dark gray square] SOUTHERN FOREST  
[Solid black square] TROPICAL FOREST

# for DEFENSE HOUSING



USHA Photo

**Prefabricated roof framing** goes up by sections on a defense housing project at Tonomy Hill, Newport, Rhode Island. Scientific timber engineering has speeded emergency work all along the line.



**Assembly line houses** laid out in piles, ready for quick erection at the Kearny Mesa defense housing project. Complete prefabrication in panels makes house building simple.



USHA Photo

Clean, attractive, livable, these Coronado Homes were erected at Dumas, Texas, by the U.S.H.A. to provide American-standard shelter for defense workers.



USHA Photo

**Two-family homes** in this defense housing project at Jacksonville, Florida, are designed with climate and environment in consideration.

**I**N the mass re-adjustments of population necessitated by the mushroom growth of defense industries in many localities and other emergency activities, housing has been a critical problem . . . housing for extra thousands of workers hastily recruited by defense plants . . . housing for the home folks evacuated from land needed for maneuvers. Here, again, lumber has "come through in the pinch". Wood houses, many completely prefabricated and erected at phenomenal speed, have gone up where and as needed without delay and at minimum cost.



**Two-story; multiple-family defense housing** going up at Tonomy Hill, Newport, Rhode Island. These units are fabricated on the job.

USHA Photo



**Housing for Navy Yard workers**—a glimpse of West Park, the two-and-a-half million dollar project at Bremerton, Washington.



**Complete, lumber-built, defense housing project** serving an industrial area at East Alton, Illinois.

USHA Photo



**Modern design** in two-family, one story homes built to house defense workers on the West Coast. Some thought has been given to appearance in these lumber homes as well as utility.

USHA Photo



**"House-an-hour"**—built for farmers evacuated from Caroline County, Virginia, when land was taken over for military purposes. Factory-fabricated one each 20 minutes; erected in little over an hour.

FSA Photo



**Four-family unit**, one of 17,000 erected by Public Buildings Administration to house defense workers. Many structures in this program are four-room, single family units.



**Prefabricated house** being completed for farmers who had to move out of the Camp Croft area in South Carolina. These houses were delivered to the site in complete panels, easily assembled.

FSA Photo



# for DEFENSE INDUSTRY

**Port of Portland Dry-dock**, measuring 126 x 450 feet, took 1,250,000 board feet of lumber to build. All this timber was cut to size, prefabricated, and transported to the site on barges.



**"Keep 'Em Floating"**—  
The Port of Portland Dry-dock is built in five sections, as many of which may be sunk as needed to accommodate the vessel under repair.

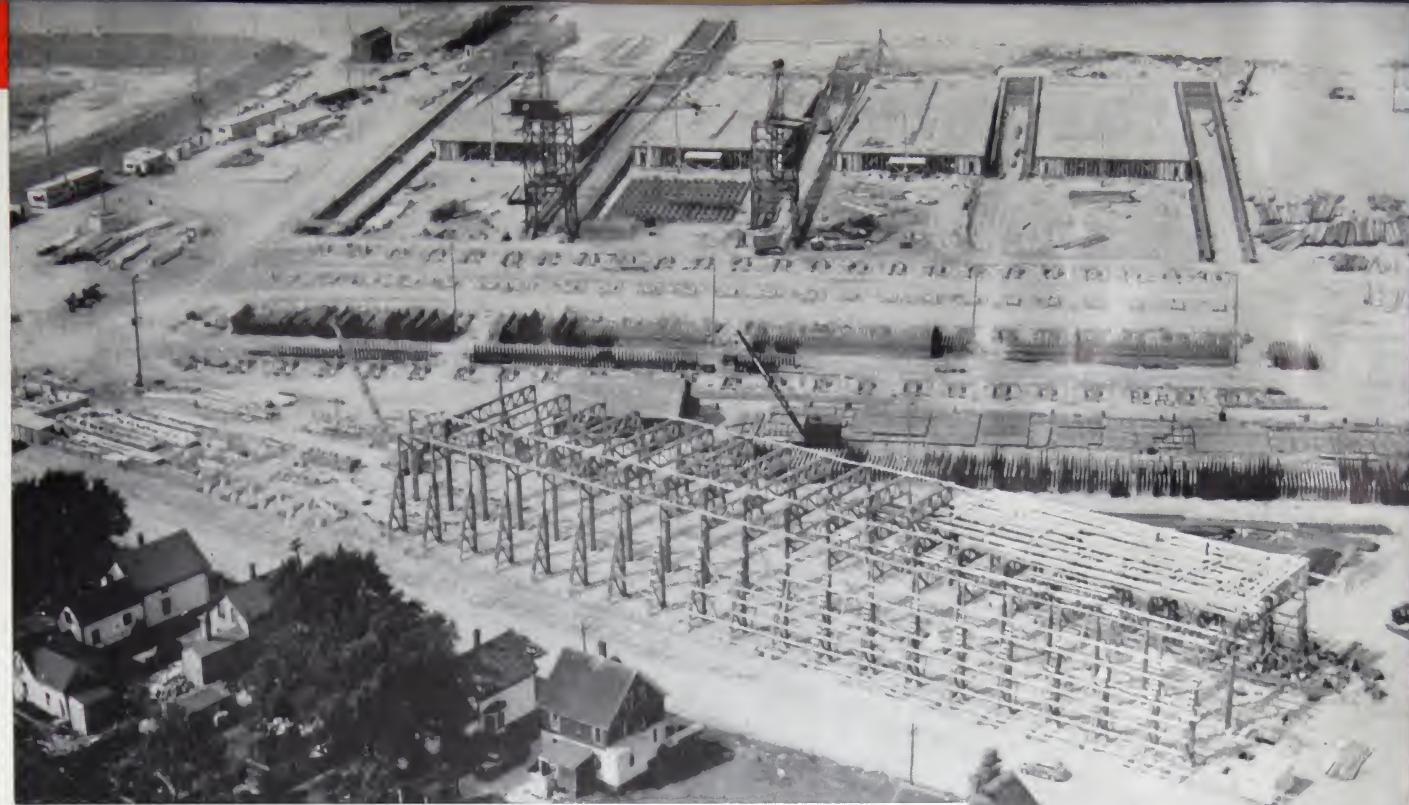


**One of five pontoons** of the Port of Portland Dry-dock, 90 feet long, 126 feet wide, and 38 feet deep. Prefabricated lumber was cut to some 3,000 different shapes to build this ship hospital.

**S**HORTAGE of steel among the Central Powers during and immediately after World War I resulted in the invention of a system by which an older structural material . . . lumber . . . can do the kind of work previously expected only of steel. Now an emergency development of an old war seems to fit peculiarly well the widespread structural demands of preparations against a possible new one. America's abundance of timber, plus new commercial fabrication facilities developed since the inauguration of timber connector engineering, has facilitated rapid and economical production of all types of defense structures.

Photo by U. S. Army Signal Corps

**Assembly shop** (foreground) of South Portland Shipbuilding Corporation, South Portland, Maine. All timber, this structure is 75 x 285 feet, and the roof is carried by TECO-fabricated trusses. Four ship ways are in the background.



**Factory** of the Peninsula Plywood Company, Port Angeles, Washington. Ninety roof trusses of 64-foot span each and three of 42-foot span were prefabricated for this factory expansion.

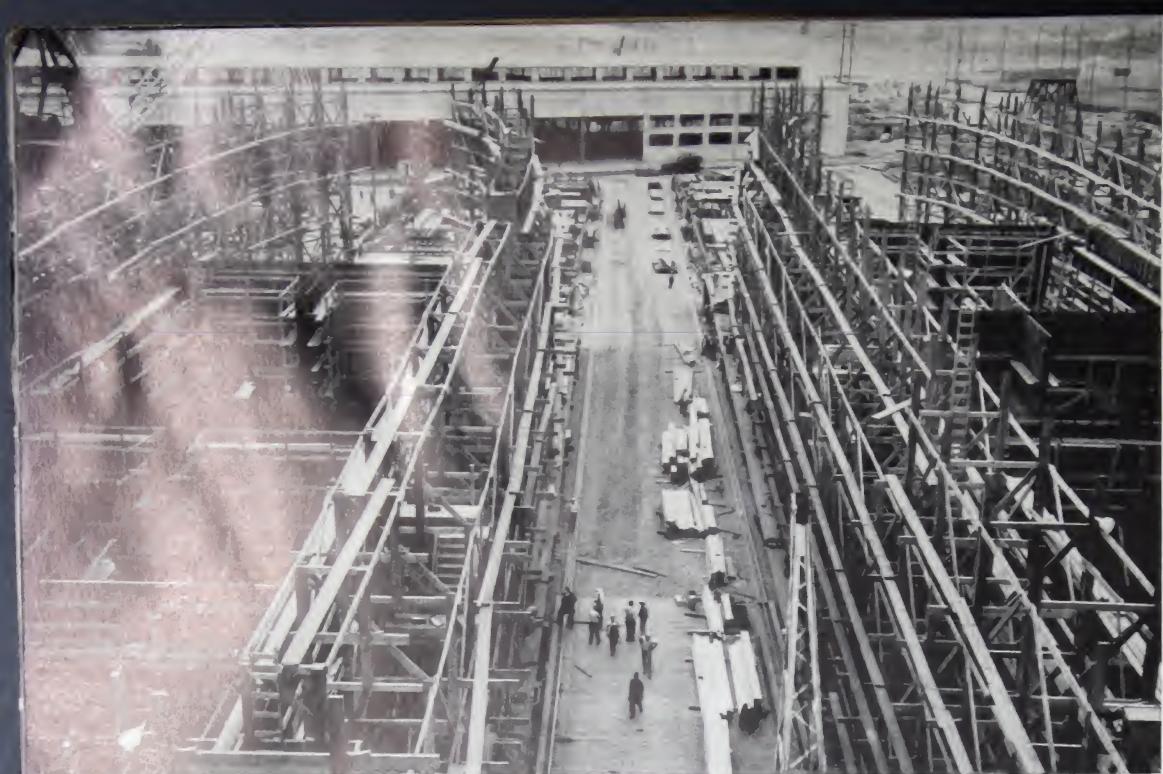


**Four 8-hour shifts** of workmen erected this entire mold loft structure for the Oregon Shipbuilding Corporation, Portland, Oregon. It was designed, prefabricated, and erected by Timber Structures, Inc., Portland, Oregon.



**Shipyard**—Eight TECO-fabricated trusses were required to support the roof over this 68 x 140-foot building at the Ballard Marine Shipyard, Seattle, Washington.





**One end of the "Bridge of Ships".** Two freighters take form in the ways. Although these ships are steel, it takes approximately 500,000 board feet of lumber to build each one.



**Close-up of the bow** of a steel freighter, giving some idea of the amount of lumber for needed scaffolding. Most of this wood is salvagable.



←



**Pile-driver**, 83 feet high, built in three sections by Summerbell Roof Structures, Los Angeles. TECO shear plates were used at all joints, permitting rapid assembly and dismantling with 100 percent salvage.



**Mold loft** of the Seattle-Tacoma Shipbuilding Corporation. The wood floor covers an area 130 x 260 feet. Timber trusses of 130-foot span, supplied by Timber Structures, Inc., Portland, Oregon, carry the roof over this great structure leaving the interior free of posts.



**Cargo vessel** emerges from its cocoon of wood scaffolding at one of the 150 odd shipways that line our coasts (more are building). It will soon be on its way.



**Only 5½ hours** were required to erect these fourteen 116-foot timber trusses on the new mold loft at the California Shipbuilding Company plant . . . one shift; no overtime. Prefabrication of these trusses was a contribution of Summerbell Roof Structures toward speeding up shipyard construction.



**Seattle Shipyard** of the Seattle-Tacoma Shipbuilding Corp., showing the mold loft and part of the assembly shop. These giant roof structures were erected in just over a month through improved timber prefabrication.



**Delivered to the job complete** in 6 working days after receipt of final lumber delivery, were these 21 eighty-foot span trusses for the mold loft of the Willamette Iron & Steel Corporation shipyard.



**Shipyard mold loft** of the Willamette Iron & Steel Corporation, Portland, Oregon, nearing completion in very fast time. TECO-connected trusses, quickly framed and assembled, speeded up this emergency job.



**3,000,000 board feet of lumber** went into building the Tacoma shipyard of the Seattle-Tacoma Shipbuilding Corporation. Here you see one of the 84 timber trusses being craned into place on the assembly shop.



**Warehouse and cannery** going up at Fullerton, California, for Val Vita Food Products, Inc. (above). Prefabricated lumber in foreground is quickly joined by TECO Ring Connectors and erected.

**Beech Aircraft Corporation's** plant being prefabricated by Timber Structures, Inc., Portland, Oregon (below). These 140-foot trusses were shipped by rail to Wichita, Kansas, and the whole structure, covering 8 acres, erected within 60 days from receipt of the order.

At either side, prefabricated timbers are being bored and grooved for TECO Connectors, the device that has graduated lumber from a carpentry to an engineering material. The man at the left is working in a prefabricating plant; the one on the right is working "on the job".





American Car & Foundry Co. Photo

**Wood box car** interior (upper) showing decking, wall sheathing, and plywood roof sheathing. The Great Northern Railroad has built or is building 2,000 of these new type, engineered, wood cars. The lower picture shows a side view of one of the cars.



Norfolk & Western R. R. Photo

**Old box car** being transformed into a stock car with lumber. In the shortage of critical list materials, railroads have found wood an ideal "substitute" and are using it extensively in place of materials once considered indispensable.



Photo by U. S. Army Signal Corps

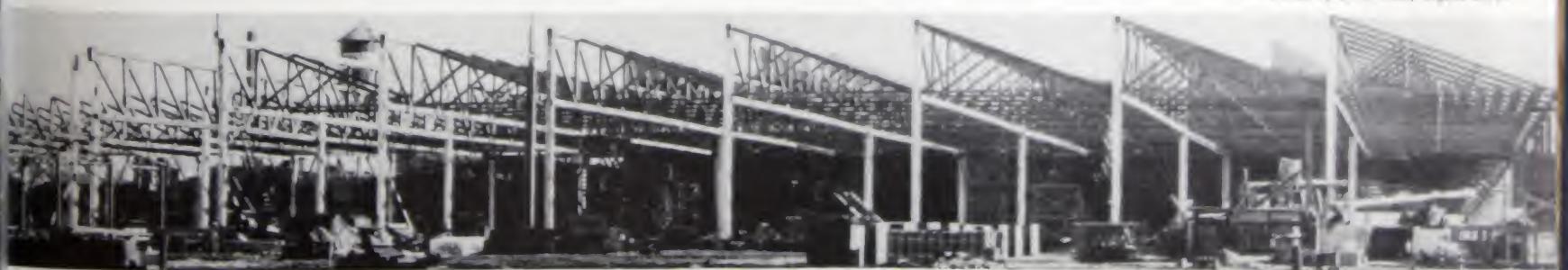


Photo by U. S. Army Signal Corps

**'Plane factory** of the Beech Aircraft Corporation, built of timber prefabricated at Portland, Oregon, and shipped to Wichita, Kansas, by rail.



**Another view** of the Beech Aircraft plant which gives a better conception of the size of the timber-built structure, covering an area of 8 acres.

# for ALL INDUSTRY



**I**N normal times, wood in some form is used to produce over 4,500 industrial items. In the present emergency, that figure is being increased, for wood is the ideal "substitute" for many critical list materials. Dealing in the most abundant, least costly, and most easily processed of all raw materials, the forest products industries have multiplied many times within the last few years their facilities for the production of fabricated, ready-to-use building parts. If you are having trouble with raw material supplies, consider wood.



**Tank tower** rising 50 feet over Sunset Beach, California. Timber construction here supports a dead weight of 75,000 gallons of water. Constructed by Summerbell Roof Structures, Los Angeles.



**Drafting room** of Timber Structures, Inc., Portland, Oregon. Here specialists in timber engineering minutely plot great wood structures . . . a new service to timber users that is rapidly growing.



**Zion Evangelical Lutheran Church** at Leeds, Wisconsin. Four boomerang arches by Rilco Laminated Products, Inc., Albert Lea, Minnesota, support the roof of this 36 x 60 foot building.



**Roman Catholic Church** at Santa Ana, California. These six 38-foot, glue and laminated arches with TECO Connector-built frames are shown being hoisted into place as single units.

**TECO-connected trusses**, 114 feet, 6 inches in span for the Earl Carroll Theater, Altadena, California.



**Orchestra shell** and dressing rooms being constructed on a barge in the Potomac River for outdoor concerts of the National Symphony at the Water Gate, Washington, D. C.

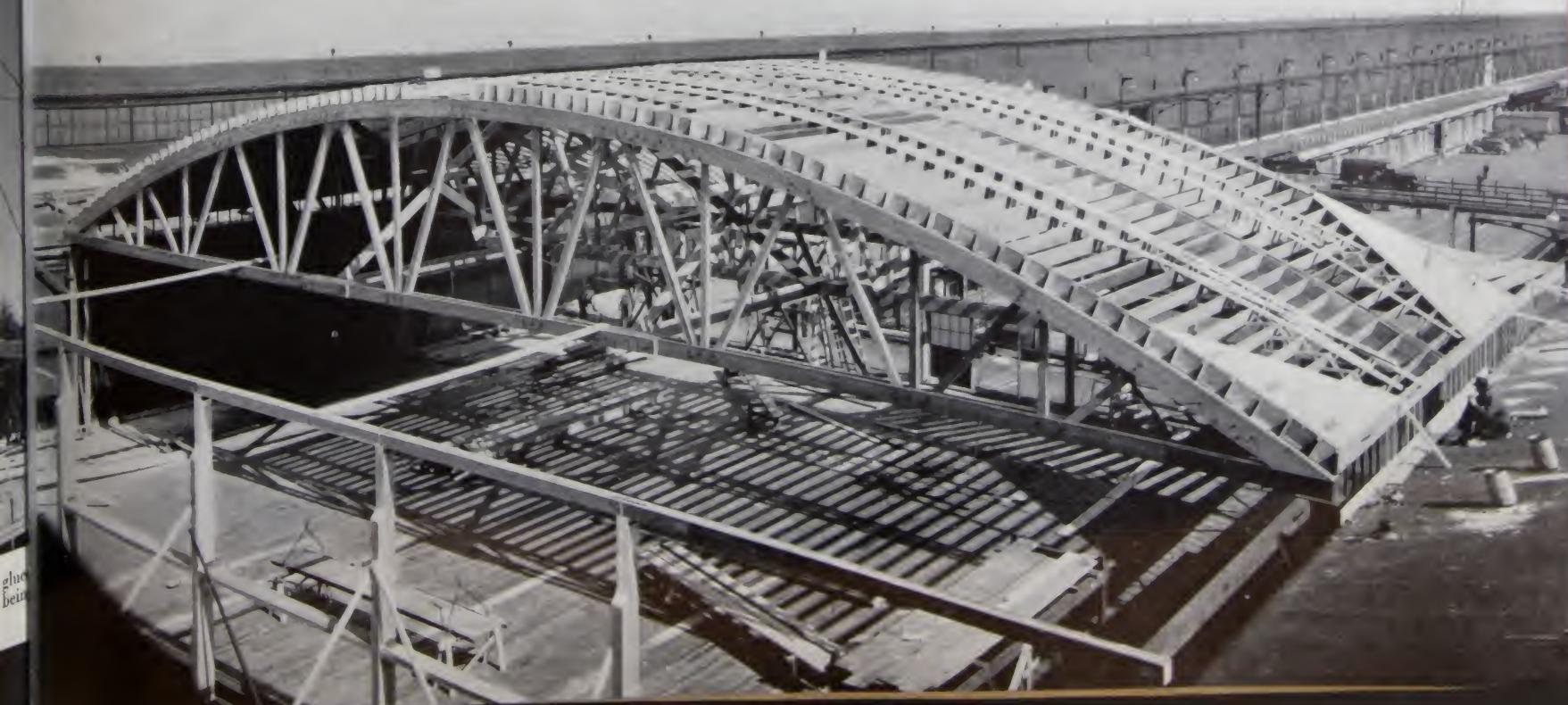


**Passion Play auditorium**, Zion, Illinois, Timber trusses, 80 feet in span and 45 feet high, by Unit Structures, Inc., Peshtigo, Wis.



**Navy (Municipal) Pier**, designed and built by McKeown Brothers Company, Chicago, for the Department of Public Works, City of Chicago. The timber trusses you see are 111 feet in span, built with TECO Timber Connectors.

**Garage**, built for Joseph Bedner, Sun Prairie, Wisconsin. Eight Beam Arches by Rilco Laminated Products, Inc., Albert Lea, Minn., were used in this 58 x 135-foot structure.





**Steel racks**, fabricated for Woodbury & Company's steel warehouse, Portland, Oregon. These timber frames must stand up under a heavy load and grueling treatment. Observe, too, that wood trusses support the roof.



•  
**Forest fire look-out tower** at Bass Hill, Shawnee National Forest, Illinois. This 100-foot timber structure, of all-timber construction, is one of an experimental series.



**Oil derrick**—Prefabricated and demountable, this tall timber structure is 130 feet high. TECO Split Ring Connectors and shear plates were used in the joints.



**Coal Tower**—Designed and built of timber for heavy work by the George P. Carver Engineering Company, Boston, Massachusetts, for the A. R. Wright Company, Portland, Maine.



**Cattle barn** in Multnomah County, Oregon. An interesting design of timber trusses support and braces the gambrel roof. Wood is the traditional building material of farmers, and they have never found a substitute as economical, workable, and durable.



**Hangars** at Clover Field, Santa Monica, California, built with 100-foot span timber trusses. Improved methods of timber prefabrication make erection of structures like these rapid and economical.



**Outland Riding Academy**, Birmingham, Michigan. Nine beam arches by Rilco Laminated Products, Inc., Albert Lea, Minnesota, with tierods were used in this structure.



**Prefabricated timber trusses**, 60-foot bowstring units, fabricated by the TECO System, being trucked to the job site.



**Roller skating rink** at York, Pennsylvania. This interesting, parabolic arch construction has a span of 92 feet.

**Baird Creek Bridge**, a modern masterpiece in timber trestle construction—1,130 feet long, 235 high. Each brace has a TECO Split Ring Connector at each end connection.



**Foot bridge** of eighteen 65-foot timber trusses at the outlet of the Los Angeles flood control channel in Long Beach.

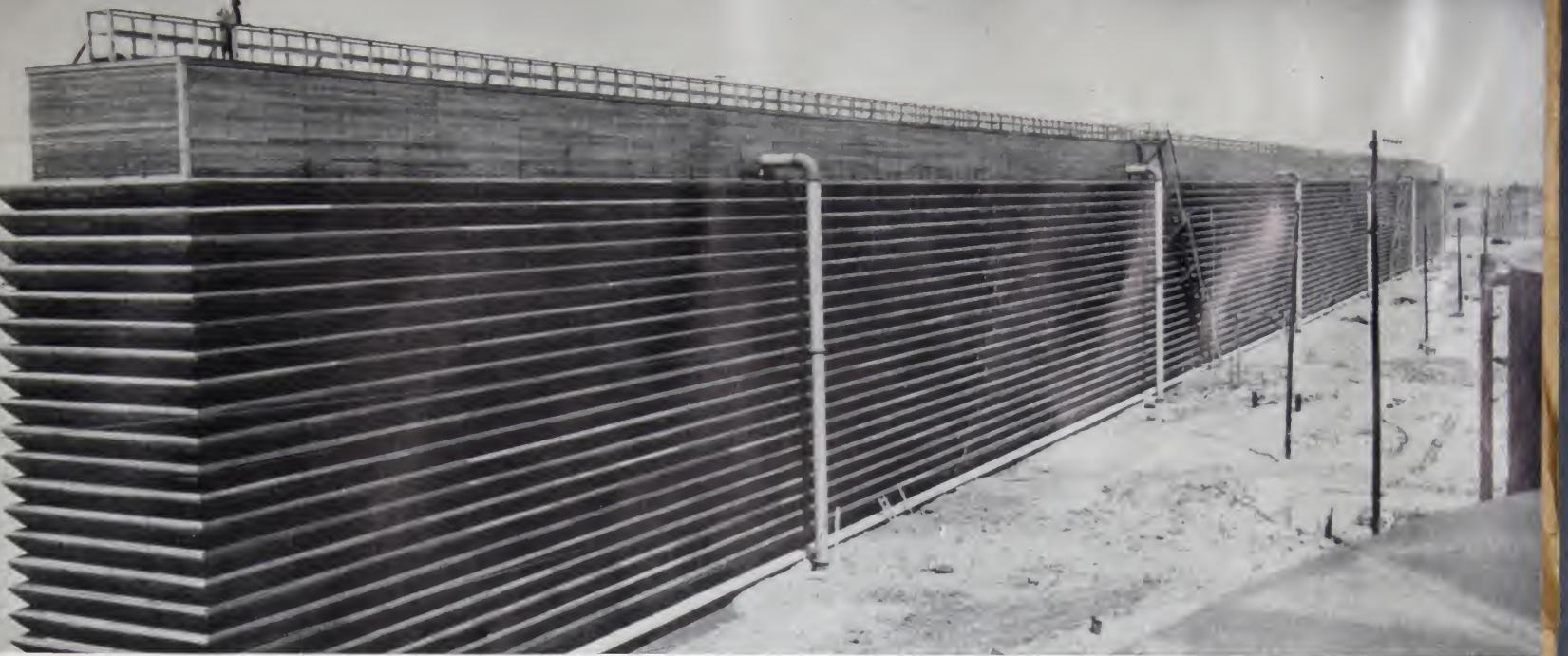


Photo by U. S. Army Signal Corps

**Powder magazine** at Indiana Ordnance Works, Charlestown, Indiana, site of approximately 100,000 lbs. plant. The earth-filled, timber berm adds to safety of possible explosion.



This 680-foot, wood trestle carried the capital's heaviest traffic burden high above Rock Creek Park while construction of the new Massachusetts Avenue bridge was underway at Washington, D. C.



**Cooling tower**, 960 feet long, built of timber for the Standard Oil Company of Indiana at Texas City, Oklahoma. This is one of the many day-to-day jobs in which timber has proven the ideal medium.



**Timber arch** centering for six 155-175-foot concrete spans on one of Ohio's largest highway bridges, crossing the Little Miami River at Fosters. Timber was fabricated at the job site and plywood used in the concrete forms.



**Railway bridge.** The Rock Island Bridge, "Samson of the Cimarron," near Liberal, Kansas, showing one of the many services in which 52 American railroads employ the TECO Connector system of timber construction.



**Hangar** at Bar Harbor, Maine. TECO Split Ring Connectors were used in all joint connections of this 100 x 80-foot timber structure. The door opening is 96 feet wide and has an overhead clearance of 22 feet.

**Plant for processing soya beans.** Erected for the Drackett Company of Cincinnati, a variety of structural materials were used in this building, but timber-connector construction was relied on for the roof trusses.



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